

Claims

What is claimed is:

1. A method of transferring a file to or from a server past a firewall, comprising the steps of:
 - accessing a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;
 - receiving the web page and the applet from the web site;
 - sending the applet to an application at a file transfer gateway; and
 - transferring the file between the file transfer gateway and the server through the firewall.
2. A method as in claim 1, wherein the web site is at a collaboration manager separate from the server.
3. A method as in claim 1, wherein the applet is signed responsive to authorization of a user accessing the web site.
4. A method as in claim 1, wherein accessing the web site and receiving the web page and the applet are performed using a web browser.

1 5. A method as in claim 4, wherein the web browser and the file transfer gateway
2 are implemented on a client.

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4 6. A method as in claim 1, wherein the application at the file transfer gateway is a
5 file transfer service implemented on a client or edgebox.

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7 7. A method as in claim 6, wherein transferring the file between the file transfer
8 gateway and the server is performed over a virtual channel between the file transfer service at the
9 file transfer gateway and a file transfer adapter at the server.

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11 8. A method as in claim 1, wherein the file is transferred in chunks.

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13 9. A method as in claim 9, wherein the chunks are transferred using a basic
14 hypertext transport mechanism.

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16 10. A method as in claim 1, further comprising the step of encrypting, decrypting,
17 or performing some other operation on the file before or after transferring the file.

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19 11. A method of transferring a file to or from a server past a firewall, comprising
20 the steps of:

21 authenticating access by a requestor to a web site behind the firewall, the web site
22 having a web page including an applet, and the web site associated with the server;

1 sending the web page and the applet to the requestor;
2 receiving a request from the requestor to transfer the file to or from the requestor;
3 transferring the file between the file transfer gateway and the server through the
4 firewall.

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6 12. A method as in claim 11, wherein the requestor is a browser or edgebox.

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8 13. A method as in claim 11, wherein the applet is signed responsive to
9 authorization of the requestor.

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11 14. A method as in claim 11, wherein the web site is at a collaboration manager
12 separate from the server.

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14 15. A method as in claim 11, wherein transferring the file between the file
15 transfer gateway and the server is performed over a virtual channel between a file transfer service
16 at the file transfer gateway and a file transfer adapter at the server.

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18 16. A method as in claim 11, wherein the file is transferred in chunks.

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20 17. A method as in claim 16, wherein the chunks are transferred using a basic
21 hypertext transport mechanism.

1 18. A method as in claim 11, further comprising the step of encrypting,
2 decrypting, or performing some other operation on the file before or after transferring the file.
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4 19. A method of downloading a file from a server past a firewall, comprising the
5 steps of:

6 registering with the server behind the firewall;
7 polling the server for files to be downloaded; and
8 downloading the file from the server through the firewall over a virtual channel;
9 wherein the file is transferred in chunks using a basic hypertext transport
10 mechanism.

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12 20. A method as in claim 19, further comprising the step of encrypting,
13 decrypting, or performing some other operation on the file before or after transferring the file.
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15 21. A method of downloading a file from a server past a firewall, comprising the
16 steps of:

17 receiving a registration at the server behind the firewall;
18 receiving polling of the server for files to be downloaded; and
19 downloading the file from the server through the firewall over a virtual channel;
20 wherein the file is transferred in chunks using a basic hypertext transport
21 mechanism.
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- 1 22. A method as in claim 21, further comprising the step of encrypting,
- 2 decrypting, or performing some other operation on the file before or after transferring the file.